

MATRICES & LPP TEST PAPER

1. Find the inverse of $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ (2M)

2. Find X , if $AX = B$ where
 $A = \begin{bmatrix} 1 & 2 & 3 \\ -1 & 1 & 2 \\ 1 & 2 & 4 \end{bmatrix}$ & $B = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$ (4M)

3. If three numbers are added, their sum is '2'. If 2 times the second number is subtracted from the sum of first and third number we get '8' and if three times the first number is added to the sum of second and third number we get '4'. Find the numbers using matrices. (4M)

4. Solve the following equations by the method of inversion
 $x - y + z = 4$, $2x + y - 3z = 0$, $x + y + z = 2$. (4M)

5. If $A = \begin{bmatrix} 1 & 1 \\ 1 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 4 & 1 \\ 3 & 1 \end{bmatrix}$ & $C = \begin{bmatrix} 24 & 7 \\ 31 & 9 \end{bmatrix}$ then find matrix X such that $AXB = C$ (4M)

6. Find the inverse of $A = \begin{bmatrix} 1 & 0 & 1 \\ 0 & 2 & 3 \\ 1 & 2 & 4 \end{bmatrix}$ by elementary column transformations. (3M)

7. Find the inverse of $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 1 & 5 \\ 2 & 4 & 7 \end{bmatrix}$ by elementary row transformations. (3M)

8. Solve the following L.P.P.
 Maximize $z = 6x + 10y$
 subject to $3x + 5y \leq 10$, $5x + 3y \leq 15$, $x \geq 0$, $y \geq 0$ (4M)

9. Solve the following L.P.P.
 Minimize : $z = 8x + 10y$ subject to $2x + y \geq 7$, $2x + 3y \geq 15$,
 $y \geq 2$, $x \geq 0$, $y \geq 0$. (4M)

10. A doctor has prescribed two different units of foods A and B to form a weekly diet for a sick person. The minimum requirements of fats, carbohydrates and proteins are 18, 28, 14 units respectively. One unit of food A has 4 units of fats, 14 units of carbohydrates and 8 units of protein. One unit of food B has 6 units of fat, 12 units of carbohydrates and 8 units of protein. The price of food A is 4.5 per unit and that of food B is 3.5 per unit. Form the L.P.P. so that the sick person's diet meets the requirements at a minimum cost. (2M)

11. A factory produced two types of chemicals A and B. The following table gives the units of ingredients P and Q (per kg) of chemicals A and B as well as minimum requirements of P and Q and also cost per kg. chemicals A and B :

CHEMICALS IN UNITS/ Ingredients per kg.	A (x)	B (y)	Minimum requirements in units
P	1	2	80
Q	3	1	75
Cost (in Rs.)	4	6	-

 Find the number of units of chemicals A and B should be produced so as to minimize the cost. (4M)

12. Find the feasible solution of the following inequations graphically.
 $0 \leq x \leq 3$, $0 \leq y \leq 3$, $x + y \leq 5$, $2x + y \geq 4$ (2M)

Matrices Linear Programming

Hugh G. Campbell



Matrices Linear Programming:

Matrices and Linear Programming with Applications Toshinori Munakata,1979 *An Introduction to Matrices, Vectors, and Linear Programming* Hugh G. Campbell,1977 An Introduction to Linear Programming and Matrix Game Theory Michael John Fryer,1978 **Matrix Algebra and Linear Programming** Marvin L. Bittinger,J. Conrad Crown,1989-01-01 **Matrices & Linear Programming** Robert O. Stanton,1992 **Sets, Matrices, and Linear Programming** Robert L. Childress,1974 Sets Functions and systems of equations Matrices and matrix algebra Additional elements of matrix algebra Linear programming The simplex method Duality and sensitivity analysis The transportation and assignment problems Integer programming Matrices in Control Theory Stephen Barnett,1971 **Elementary Matrix Algebra with Linear Programming** Richard J. Painter,Richard P. Yantis,1971 Linear Programming Computation Ping-Qi PAN,2014-03-27 With emphasis on computation this book is a real breakthrough in the field of LP In addition to conventional topics such as the simplex method duality and interior point methods all deduced in a fresh and clear manner it introduces the state of the art by highlighting brand new and advanced results including efficient pivot rules Phase I approaches reduced simplex methods deficient basis methods face methods and pivotal interior point methods In particular it covers the determination of the optimal solution set feasible point simplex method decomposition principle for solving large scale problems controlled branch method based on generalized reduced simplex framework for solving integer LP problems

Nonnegative Matrices in the Mathematical Sciences Abraham Berman,Robert J. Plemmons,2014-05-10 Nonnegative Matrices in the Mathematical Sciences provides information pertinent to the fundamental aspects of the theory of nonnegative matrices This book describes selected applications of the theory to numerical analysis probability economics and operations research Organized into 10 chapters this book begins with an overview of the properties of nonnegative matrices This text then examines the inverse positive matrices Other chapters consider the basic approaches to the study of nonnegative matrices namely geometrical and combinatorial This book discusses as well some useful ideas from the algebraic theory of semigroups and considers a canonical form for nonnegative idempotent matrices and special types of idempotent matrices The final chapter deals with the linear complementary problem LCP This book is a valuable resource for mathematical economists mathematical programmers statisticians mathematicians and computer scientists *Essentials of Finite Mathematics* Robert F. Brown,Brenda W. Brown,1990-01-01 This book concentrates on four topics that are at heart of an introductory mathematics course for majors in the social and biological sciences as well as business The presentation is as complete as possible at this level There is more than enough material for a one semester course yet the overall size of the book is appropriate for courses of this length **Linear Programming and Matrix Algebra** Samuel C. Hanna,John C. Saber,1978 **Matrix With Linear Programming** Dittmore,1993-01-01 Linear Programming Katta G. Murty,1983-10-07 Formulation of linear programming the simplex method geometry of the simplex method duality in linear

programming revised primal simplex method the dual simplex method numerically stable forms of the simplex method parametric linear programs sensitivity analysis degeneracy in linear programming bounded variable linear programs the decomposition principle of linear programming the transportation problem computational complexity of the simplex algorithm the ellipsoid method iterative methods for linear inequalities and linear programs vector minima

An Introduction to Matrices, Vectors, Linear Programming Hugh G. Campbell, 1985

Solutions Manual for Matrices and Linear Programming with Applications Toshinori Munakata, 1979

Linear Optimization Problems with Inexact Data Miroslav Fiedler, Josef Nedoma, Jaroslav Ramik, Jiri Rohn, Karel Zimmermann, 2006-07-18

Linear programming attracted the interest of mathematicians during and after World War II when the first computers were constructed and methods for solving large linear programming problems were sought in connection with specific practical problems for example providing logistical support for the U S Armed Forces or modeling national economies Early attempts to apply linear programming methods to solve practical problems failed to satisfy expectations There were various reasons for the failure One of them which is the central topic of this book was the inexactness of the data used to create the models This phenomenon inherent in most practical problems has been dealt with in several ways At first linear programming models used average values of inherently vague coefficients but the optimal solutions of these models were not always optimal for the original problem itself Later researchers developed the stochastic linear programming approach but this too has its limitations Recently interest has been given to linear programming problems with data given as intervals convex sets and or fuzzy sets The individual results of these studies have been promising but the literature has not presented a unified theory

Linear Optimization Problems with Inexact Data attempts to present a comprehensive treatment of linear optimization with inexact data summarizing existing results and presenting new ones within a unifying framework

An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994

Matrices and Simplex Algorithms Aart R. Heesterman, 1983 This book provides an introduction to the theory and application of a range of mathematical programming algorithms and to the prerequisite fields of linear algebra and the graphical presentation of a number of rational functions The algorithms offered cover matrix inversion linear programming quadratic programming with linear side conditions quadratic programming with quadratic side conditions and integer programming The resolution of mixed systems of equations and inequalities systems with sign constrained and free variables and the accommodation of upper and lower limits in specified variables without explicitly written restrictions are discussed for linear programming as well as for quadratic programming with linear side conditions Of the algorithms provided the sequentially constrained maximization method for solving the general quantitative programming problem is in part novel The other algorithms are in outline established methods There is however a more direct approach to the problem of the infeasible starting solution and as a result a less rigid separation between the traditional I and II than is usual

Introduction to Numerical Linear Algebra and Optimisation Philippe G. Ciarlet, Bernadette Miara, Jean-Marie

Thomas,1989-08-25 The purpose of this book is to give a thorough introduction to the most commonly used methods of numerical linear algebra and optimisation The prerequisites are some familiarity with the basic properties of matrices finite dimensional vector spaces advanced calculus and some elementary notations from functional analysis The book is in two parts The first deals with numerical linear algebra review of matrix theory direct and iterative methods for solving linear systems calculation of eigenvalues and eigenvectors and the second optimisation general algorithms linear and nonlinear programming The author has based the book on courses taught for advanced undergraduate and beginning graduate students and the result is a well organised and lucid exposition Summaries of basic mathematics are provided proofs of theorems are complete yet kept as simple as possible and applications from physics and mechanics are discussed Professor Ciarlet has also helpfully provided over 40 line diagrams a great many applications and a useful guide to further reading This excellent textbook which is translated and revised from the very successful French edition will be of great value to students of numerical analysis applied mathematics and engineering

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